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## Figure Basic Lane Closures

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## **APPENDICES:** UNIFORM SIGN CHARTS

Appendix I	Construction Signs
Appendix II	Warning Signs
Appendix III	Regulatory Signs
Appendix IV	Guide Signs

#### Introduction

The Traffic Control Plans and associated text depicted in this Manual conforms with Part 6 of the Manual on Uniform Traffic Control Devices 2003 Edition (MUTCD) and the MUTCD 2003 California Supplement Chapter 6A – 6I.

The criteria of this Manual are intended to primarily apply to urban areas. Urban street traffic is typically characterized by relatively low speeds, wide ranges in traffic volume, narrower roadway lanes, frequent intersections, significant pedestrian traffic, bicyclists and frequent roadside obstacles.

This manual provides the basic standards for the safe movement of traffic upon highways and streets in accordance with Section 21400 of the California Vehicle Code. Traffic control includes safe protection for the public, motorist, cyclist, pedestrian and worker. It is the responsibility of the contractor or organization performing work on, or adjacent to, a roadway to install and maintain such devices which are necessary to provide safe passage for the traveling public through the work area and for the safety of the workers.

This text is intended to supplement the standards established by the Federal Department of Transportation and Caltrans by establishing construction area traffic control guidelines for work within the City of San Jose. The criteria for the position, location, manner of installation, and the use of such signs, lights and devices are furnished solely for the purpose of information and guidance.

No one set of signs or other traffic control devices can typically satisfy all conditions for a given project. At the same time, defining detailed standards that would be adequate to cover all applications is simply not practical. This Manual displays several diagrams that depict common applications of standard temporary traffic control devices and applications. The traffic control selected for each situation shall be based on street type, traffic conditions, duration of operation, physical constraints, and the nearness of the workspace to vehicle traffic, pedestrians, and bicyclists.

## **Objectives**

#### To Provide:

- a) Safety protection for the public, motorist, cyclist, and pedestrian.
- b) Safety protection for construction workers, contractors, and equipment.
- c) Safe access for police, fire, and rescue vehicles.
- d) Guidance for safe effective work areas, to warn, control, protect, and expedite vehicular and pedestrian traffic.
- e) The basic principles that govern the design and usage of warning signs, lights and devices placed upon the public roadway.

## Work Area Planning

Work should be planned in advance to permit employees and equipment to safely move into position, accomplish the job in a safe and skillful manner and move out of the area as soon as possible upon completion.

During any time the normal function of a roadway is suspended, temporary traffic control planning must provide for continuity of function (movement of traffic, pedestrians, bicyclists, transit operations, and access to property/utilities). The location where the normal function of the roadway is suspended is defined as the workspace. The workspace is that portion of the roadway closed to traffic and set aside for workers, equipment, and material. Sometimes there may be several workspaces within the project limits. Each workspace should be signed to inform drivers of what to expect.

Effective temporary traffic control enhances traffic operations and efficiency, regardless of whether street construction, maintenance, utility work, or roadway incidents are taking place in the workspace. Effective temporary traffic control must provide for the workers, road users, and pedestrians. At the same time, it must provide for the efficient completion of whatever activity suspended normal use of the roadway.

It is essential that concern for traffic accidents, worker safety and efficiency of traffic movement form an integral element of every temporary traffic control zone, from planning through completion of work activity. Simultaneously, the control selected must permit efficient maintenance / construction of roadways and roadway appurtenances.

Where physical conditions are such that hills, curves, buildings, vegetation, etc. reduce or obscure driver view, additional precautions become necessary. On-coming traffic should be alerted to potential hazards by the suitable use of signs, flaggers barricades, flags, flashers, or traffic cones, in any combination that will give adequate advance warning and that will channel traffic according to the predetermined plan.

Under conditions of severely restricted visibility, a second "Road Work Ahead" sign, spaced in accordance with the speed/distance table, is advised. Drivers must be able to see warning signs far enough in advance to slow their vehicles to a safe speed.

The employee in charge must review and advise the workers on how to set up, maintain and remove the traffic control devices.

In planning for the safety of all involved, consider the traveling public and remember:

- ♦ They must be warned sufficiently in advance to allow time to think and react.
- ♦ They must have time to regulate their speed, to allow them to pass through the guidance pattern with safety and ensure an even flow of traffic.
- ♦ The need for decision making must be reduced to a minimum. This can be done with a planned guidance pattern.

A checklist of items to be considered in planning should include the following:

- a) Estimated time required to complete the job in order to determine short-term or longrange operations.
- b) Volume and speed of traffic.
- c) Changes in traffic conditions during the operation.
- d) Ordinances and permit requirements.
- e) Set up shall always start with the advance warning sign and work back to the jobsite.
- f) Determination of the number and types of safety devices, cones/delineators, signs, flags, flashers, barricades, flashing arrow signs, etc., required for the job.
- q) Flaggers, while setting up protection and during the job operation, if required.
- h) Effective utilization of utility vehicles for maximum protection.

## Warning and Construction Signs, Guards and Barriers

Approved warning signs, barricades, cones/delineators, guards, flags, flares, reflectors, and lights at night, shall be installed and properly maintained wherever hazards exist due to moving or stationary vehicles, open excavations, construction and maintenance operations and similar work.

Warning equipment shall be placed so as to provide adequate notice to motorists, cyclists, or pedestrians that they are approaching an excavation, obstruction, or other hazard. Warning signs shall be removed as soon as the excavation, obstruction, or other hazard is cleared.

#### **Channeling Devices**

Channeling devices are elements in a total system of traffic control devices for use in construction and maintenance operations. These elements shall be preceded by a subsystem of warning devices that are adequate in size, number, and placement for the type of roadway on which the work is to take place. Channeling Devices in temporary Traffic Control Zones shall conform to sections 5G-1 and 6F-29 through -36 of the MUTCD 2003 Edition.

Approved channelizing devices shall be used for the following purposes:

- To channel and divert traffic in advance of work zones.
- To define traffic lanes through the work zone.
- To define a change in the position of the lanes around the work zones.
- To define curves and the edges of the roadway on detours.
- To separate opposing lanes of traffic.

Correctly positioned cones/delineators provide an excellent guidance path. Improperly positioned cones/delineators only confuse drivers.

#### **Barricades**

The function of barricades is to separate the motorist from objects or unusual situations created by construction or maintenance activities in or near the traveled way. Barricades should <u>not</u> be used to guide motorists through the transition or work zones. Barricades in temporary Traffic Control Zones shall conform to sections 6F-33 through -36 of the MUTCD 2003 Edition.

The barricade would not be used where a collision with the barricade would be more severe than a collision with the object being separated. At such locations, cones/delineators, or other less rigid devices should be used.

#### Barricade design:

Barricades for vehicular traffic shall be of three types: Type I, Type II, and Type III (Figure 6F-7 Page 6F-32 MUTCD 2003 Edition.

Markings for barricade rails shall be alternate orange and white stripes sloping downward at an angle of 45 degrees. The entire area of orange and white shall be effectively reflectorized. The predominant color for other barricade components shall be white.

## Flashing Arrow Signs (FAS)

Туре	Minimum Size	Minimum Number of	Minimum Legibility
		Panel Elements	Distance
A	24" x 48"	12	½ mile
В	30" x 60"	13	3/4 mile
С	48" x 96"	15	1 mile

Arrow Panels in temporary Traffic Control Zones shall conform to sections 6F-26 through -28 of the MUTCD 2003 Edition.

## **Night Operations**

In order to provide enhanced warning and safety during twilight and night operations, the following steps should be adhered to:

- When the work area is to be illuminated by use of floodlights, the light placement shall be such that the light beams are not hazardous to oncoming traffic.
- All warning signs and cones/delineators shall be illuminated or reflectorized.
- Flashing or rotating amber lights on vehicles may be used for additional work area protection.
- Flaggers must be illuminated, visible to approaching traffic, and wear approved reflectorized garments.

**Note:** Flares and red emergency reflectors are strictly for emergency situations and must not be used as substitutes for standard work area warning devices. Flares shall not be used in combustible or high fire areas.

## **Use of Flaggers**

Flaggers shall be provided where approved signs or barricades do not provide adequate traffic control.

The proper use of flaggers, where circumstances warrant, will not only provide for vehicular traffic, but will also provide protection for employees working in the immediate area to divert the normal flow of traffic.

#### Flaggers are required as follows:

- a) At all locations where warning and control devices cannot adequately control the moving traffic.
- b) Where the job requires the use of one lane for two directions of traffic. (One flagger is required for each direction of traffic.)

More information at: <a href="http://www.dot.ca.gov/hg/construc/flagging.html">http://www.dot.ca.gov/hg/construc/flagging.html</a>

#### Placement and equipment requirements:

Flaggers shall be logically placed in relation to the equipment or operation so as to give adequate warning, and shall be stationed approximately 100 feet (30.5m) ahead of the possible impact point. Flaggers shall wear approved warning garments. Reflectorized vests shall be used when flagging at night and the flaggers must be illuminated and visible to approaching traffic. Flaggers shall be trained in the proper fundamentals of flagging traffic before being assigned as a flagger. Flaggers who are not in visual contact with each other shall use radios or other positive communications.

The temporary sign, C-9A (CA), shall be placed ahead of the flagger. The distance between the sign and the flagger should be based on the average traffic speed, allowing approximately 100 feet for each ten miles per hour.

Flagging procedures and all signs and equipment shall comply with the MUTCD 2003 Edition and the MUTCD 2003 California Supplement Chapter 6A – 6I.

#### Flagging Procedures for Traffic Control

Flaggers shall use the Stop/Slow paddle for traffic control in the following manner:

#### To Stop Traffic

Hold the STOP paddle in a stationary position with the arm extended horizontally away from the body. The free arm should be raised with palm facing approaching traffic.

#### To Alert or Slow Traffic

Hold the SLOW paddle in a stationary position with the arm extended horizontally away from the body. The free arm should be raised and lowered slowly with the palm down.

#### To Direct Traffic to proceed

Hold SLOW paddle at arm's length and motion with the free hand for traffic to proceed.

#### Work Area at End of Work Period

Before leaving a work area, it is necessary that approved warning devices be placed to protect motorists and pedestrians.

Ensure that the area is properly barricaded and that flashing lights, where required, are functioning satisfactorily.

Make sure that equipment is secured and that the work area is left orderly.

Make sure that the area and adjacent areas are swept clean and are free of debris.

## **Pedestrian Considerations**

When the work area encroaches upon a sidewalk, walkway, or crosswalk area, adequate protection for the safety of pedestrians must be provided. Pedestrian Considerations in temporary Traffic Control Zones shall conform to sections 6D-1 through -4 and 6G-4 through -5 of the MUTCD 2003 Edition. Barricades and cones/delineators may be used advantageously in defining pedestrian walkways. Protect against any condition, which would create a tripping, falling or slipping hazard. A minimum walkway width of 60" must be maintained at all times for safe passage through the work area.

When overhead work is being performed, pedestrian passage area below must be rerouted or protected.

There are three threshold considerations in planning for pedestrians in temporary traffic control zones on highways and streets:

- 1) Pedestrians shall not be led into direct conflicts with work site vehicles, equipment, or operations.
- 2) Pedestrians shall not be led into direct conflicts with mainline traffic moving through or around the work site.
- 3) Pedestrians shall be provided with a convenient travel path that replicates as nearly as possible the most desirable characteristics of sidewalks or footpaths.

In accommodating the needs of pedestrians at work sites, it should always be remembered that the range of pedestrians that can be expected is very wide, including the visually impaired, the hearing impaired, and those with walking disabilities. All pedestrians need protection from potential injury and should be provided a smooth, clearly delineated travel path.

Every effort shall be made to separate pedestrian movement from both work site activity and adjacent traffic. Whenever possible, signing will be used to direct pedestrians to street crossings in advance of an encounter with a temporary traffic control zone. Signs shall be placed at intersections so that pedestrians are not confronted with mid-block work sites that will induce them to skirt the temporary traffic control zone or make a mid-block crossing. It must be recognized that pedestrians will only infrequently retrace their steps to make a crossing. Consequently, ample advance notification of sidewalk closures is critically important. Refer to Figure CSJ-22 of this Manual. See sections 6D-1 through -4 and 6G-4 through -5 of the MUTCD 2003 Edition for typical traffic control device usage and techniques for pedestrian movement through work zones.

When pedestrian movement through or around a work site is necessary, the aim of the engineer is to provide a separate, footpath without abrupt changes in grade or terrain. Judicious use of special warning and control devices to warn motorists is helpful for certain difficult work zone situations. These include rumble strips, changeable message signs, hazard identification beacons, flags, and warning lights. Whenever it is feasible, closing off the work site from pedestrian intrusions is preferable to channelizing pedestrian traffic along the site solely with temporary traffic control devices such as cones, portable delineators, barricades, or drums. If the possibility of vehicle impact is very low, chain link or other suitable fencing, placed well away from traffic, is acceptable. Solid fencing with plywood, however, can create sight distance restrictions at intersections and at work site access cuts. Care must be taken not to

create fenced areas that are vulnerable to splintering or fragmentation by vehicle impacts. Similarly, temporary traffic control devices used to delineate a temporary traffic control zone pedestrian walkway must be lightweight and, when struck, present a minimum threat to pedestrians, workers, and impacting vehicles. Only minimally necessary ballasting with lightweight materials should be used with these devices.

Movement by work vehicles and equipment across designated pedestrian paths should be minimized and should be controlled by flaggers. Cuts into work zones across pedestrian walkways should be kept to a minimum, because they often create unacceptable changes in grade and rough or muddy terrain. Pedestrians cannot be expected to traverse these areas willingly. They will tend to avoid the cuts by attempting non-intersection crossings.

At work sites of significant duration, especially in urban areas with high pedestrian volumes, and where falling debris is a concern (such as work on overhead structures), a canopied walkway is frequently needed to protect pedestrians from falling debris. These covered walkways should be sturdily constructed and adequately lit for nighttime use.

In places where pedestrians are judged especially vulnerable to impact by errant vehicles, all foot traffic should be separated and protected by longitudinal barrier systems. Where a barrier is clearly needed, it should have sufficient strength and low deflection characteristics, to keep vehicles from intruding into the pedestrian space. Further, short, non-continuous segments of longitudinal systems, such as concrete barriers, must be avoided because they nullify the containment and redirective capabilities of the design, increase the potential for serious injury to both vehicle occupants and pedestrians, and encourage the presence of blunt, leading ends. All upstream leading ends that are present shall be appropriately flared or protected with properly installed and maintained impact attenuators. With regard to concrete barriers in particular, it is very important to ensure that adjacent segments are properly joined to effect the overall strength required for the system to perform properly.

It has been determined through study and experience that vertical curbs cannot prevent vehicle intrusions into work zones. As a consequence, normal vertical curbing is not a satisfactory substitute for positive barriers when these are clearly needed. Similarly, contractor-constructed wooden railings, chain-link fencing with horizontal pipe runs, and similar systems placed directly adjacent to vehicle traffic are not acceptable substitutes for crashworthy positive barriers. In many instances, temporary positive barriers may be necessary to prevent pedestrians from unauthorized movements into the active work zone and to prevent conflicts with traffic by eliminating the possibility of mid-block crossings.

If a high potential exists for vehicle incursions into the pedestrian space, judgment must be exercised as to whether to reroute pedestrians or use barriers.

Engineering judgment in each temporary traffic control zone situation should readily determine the extent of pedestrian needs. The intent of temporary traffic control zones should provide both a sense of security and safety for pedestrians walking past work sites and consistent, unambiguous channelization to maintain foot traffic along the desired travel paths.

## **Bicycle Considerations**

Whenever possible, maintain bicycle lanes. Provide bicycle warning signs where appropriate. Where a striped bicycle exists, the sign "Bikes Share the Lane" shall be added to the Temporary Traffic Control Signs. Bicycle Considerations in temporary Traffic Control Zones shall conform to section 6G-4 of the MUTCD 2003 Edition

There are several considerations in planning for bicyclists in temporary traffic control zones on highways and streets:

- A travel route that replicates the most desirable characteristics of a wide paved shoulder or bikeway through or around the traffic control zone is desirable for bicyclists.
- If the traffic control zone interrupts the continuity of an existing bikeway system, signs directing bicyclists through or around the zone and back to the bikeway is desirable.
- Unless a separate bike path through or around the traffic control zone is provided, adequate roadway lane width to allow bicyclists and motor vehicles to travel side by side through or around the zone is desirable.
- Bicyclists shall not be led into direct conflicts with mainline traffic, work site vehicles, or equipment moving through or around the traffic control zone.

## **Special Considerations**

All traffic control devices used on street construction, maintenance, utility, or incident management (temporary traffic control) operations shall conform to the applicable specifications of Chapter 6 of the MUTCD 2003 Edition.

Special plan preparation and coordination with transit and other highway agencies, police and other emergency units, utilities, schools, railroads, etc. will be needed to receive input and support for advising motorists of potential traffic operation situations.

During temporary traffic control activities, commercial vehicles may need to follow a different route from automobiles because of bridge, weight, clearance, or geometric restrictions. Also, vehicles carrying hazardous materials may need to follow a different route from other vehicles.

#### TABLE A

## MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

**Table A-1**Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length	
<u>Upstream Tapers</u>		
Merging Taper	L MINIMUM	
Shifting Taper	1/2 L Minimum	
Shoulder Taper	1/3 L Minimum	
Two-Way Traffic Taper	100 feet Maximum	
Downstream Tapers		
(Use is optional)	100 feet Minimum	

## Formula for Taper Length 'L'

$L = \frac{WS^2}{60}$	(40 mph or less)	L = WS	(45 mph or greater)
L = Taper Length in feet W = Width of Offset in feet S = Speed in mph			

**Table A-2**Suggested Advance Warning Sign Spacing

Road Type	Distance Between Signs in Feet
	S
Urban - 25 mph or less	200
Urban - 30 mph or more	350
Rural	500
Expressway/Freeway	1000

**Table A-3**Taper Length and Buffer Space
Use in Typical Applications Diagrams

#### **Length of Taper 'L' in Feet**

Length of Taper E In Feet		
Speed in	\\".	OCC Takak
Miles	Width of	Offset**
per Hour*	11 Feet	12 Feet
20	73	80
25	115	125
30	165	180
35	225	245
40	293	320
45	495	540
50	550	600
55	605	660
60	660	720
65	715	780
70	770	840

## **Longitudinal Buffer Space**

Speed in	Length of
Miles	Buffer Space
per Hour*	in Feet
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485
70	585

<sup>\*</sup> Posted speed, off-peak 85th percentille speed prior to starting, or the anticipated operation speed.

<sup>\*\*</sup> For other offset widths, apply the formula in table A-1.

Figure CSJ-1. Single Lane Closure - Right Lane

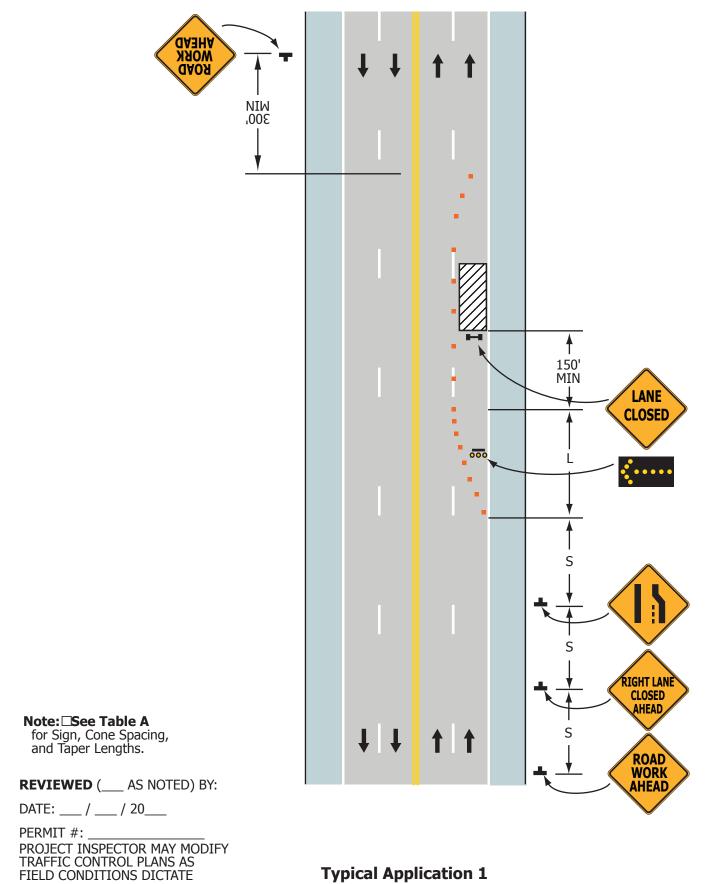
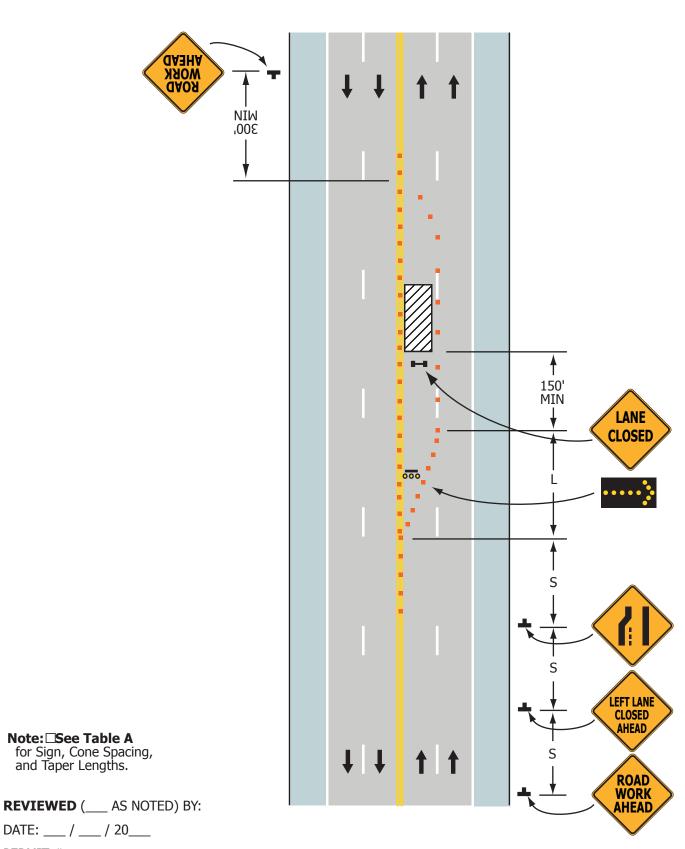


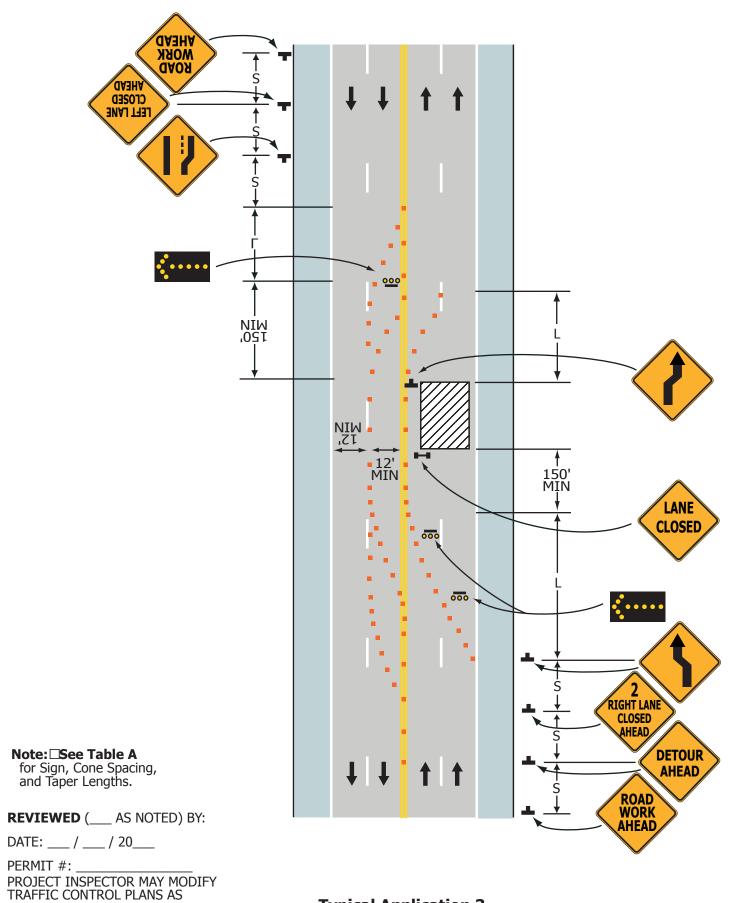
Figure CSJ-2. Single Lane Closure - Left Lane



PERMIT #: \_\_\_\_\_ PROJECT INSPECTOR MAY MODIFY TRAFFIC CONTROL PLANS AS FIELD CONDITIONS DICTATE

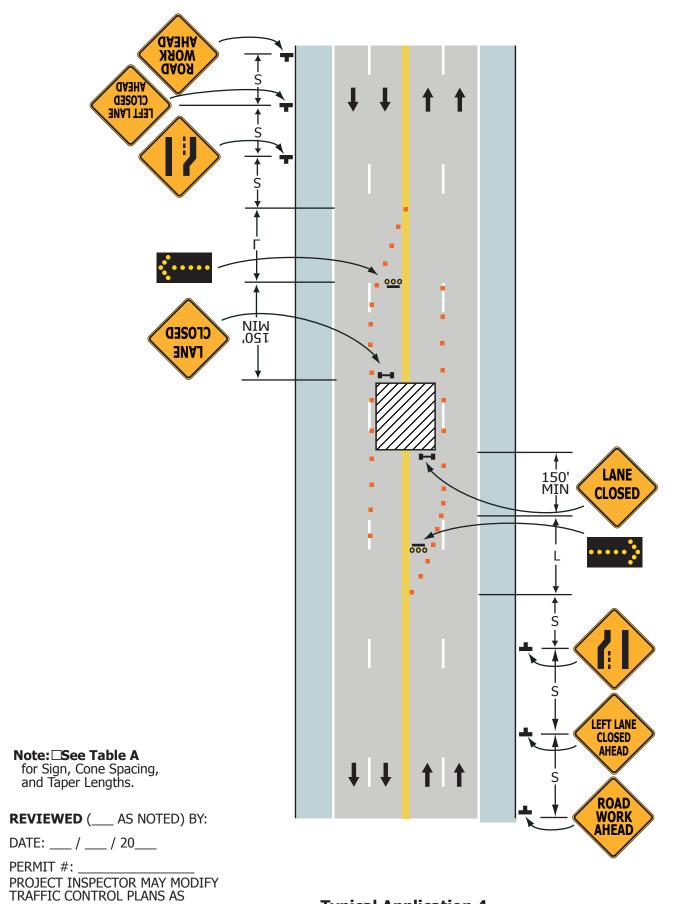
**Typical Application 2** 

Figure CSJ-3. Half Roaday Closure



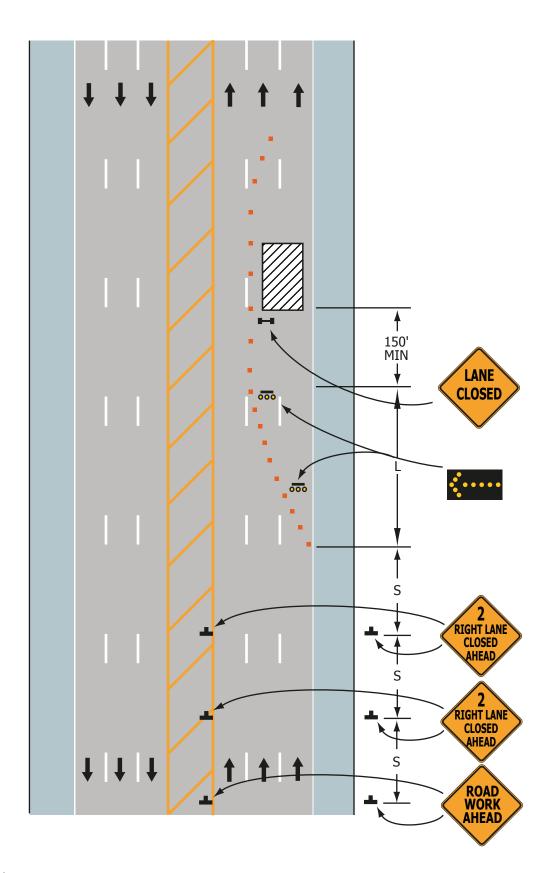
FIELD CONDITIONS DICTATE

Figure CSJ-4. Center Roaday Closure



FIELD CONDITIONS DICTATE

**Figure CSJ-5. Multiple Lane Closure - Right Lanes** 



Note: □See Table A for Sign, Cone Spacing, and Taper Lengths.

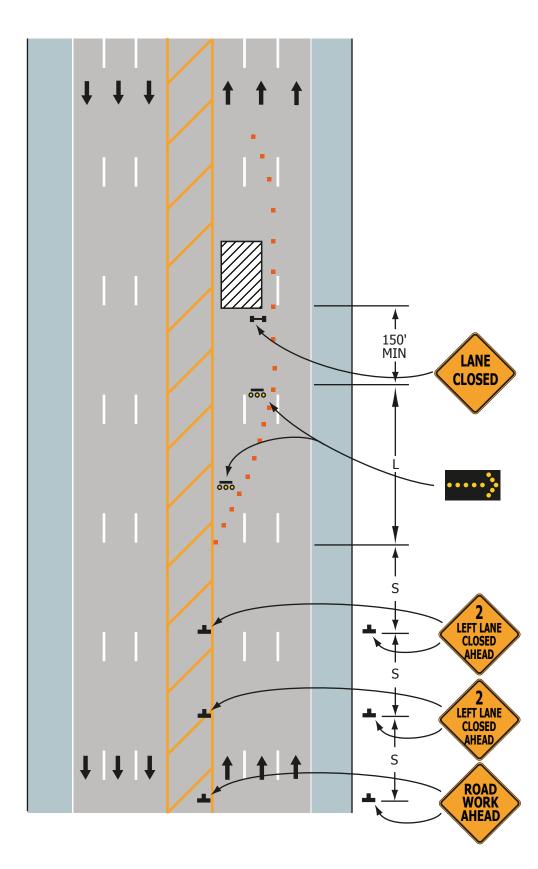
**REVIEWED** (\_\_\_\_ AS NOTED) BY:

DATE: \_\_\_ / \_\_\_ / 20\_\_\_

PERMIT #:

PROJECT INSPECTOR MAY MODIFY TRAFFIC CONTROL PLANS AS FIELD CONDITIONS DICTATE

**Figure CSJ-6. Multiple Lane Closure - Left Lanes** 



**Note:** See Table A for Sign, Cone Spacing, and Taper Lengths.

**REVIEWED** (\_\_\_\_ AS NOTED) BY:

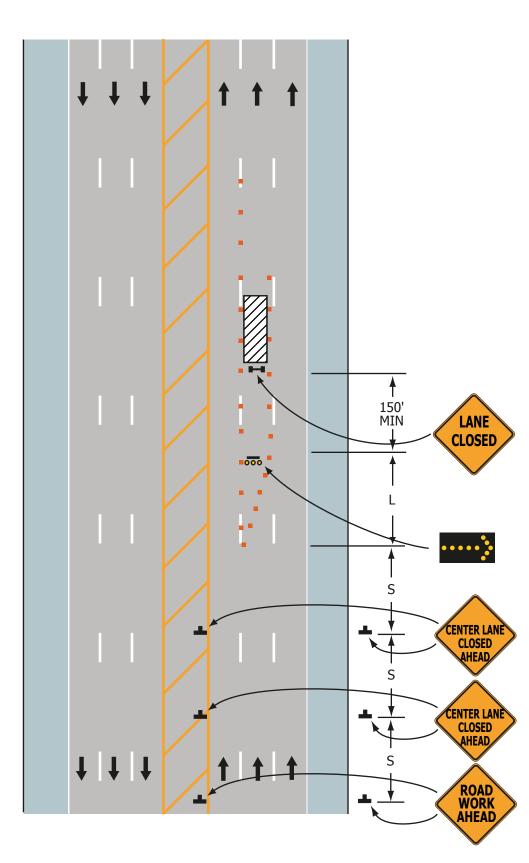
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PERMIT #:

PROJECT INSPECTOR MAY MODIFY TRAFFIC CONTROL PLANS AS FIELD CONDITIONS DICTATE

**Typical Application 6** 

Figure CSJ-7. Middle Lane Closure



**Note:** □**See Table A** for Sign, Cone Spacing, and Taper Lengths.

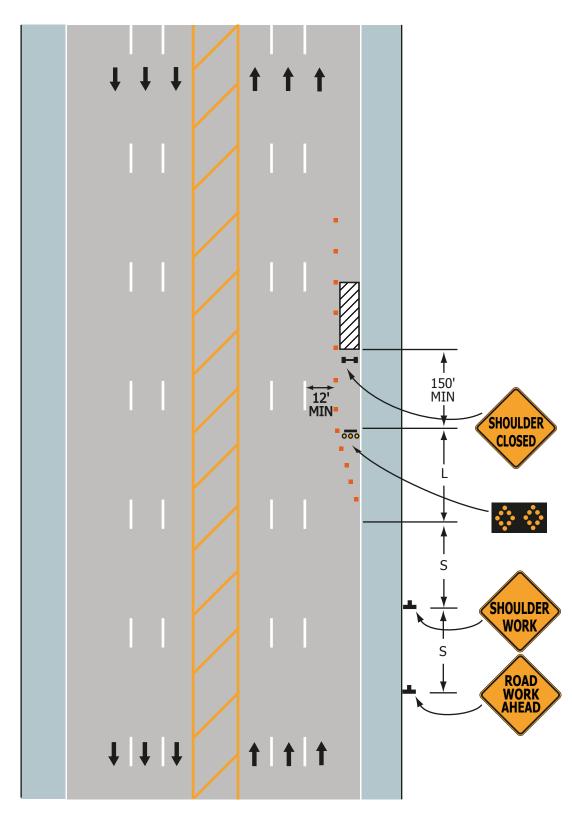
**REVIEWED** (\_\_\_\_ AS NOTED) BY:

DATE: \_\_\_ / \_\_\_ / 20\_\_\_

PERMIT #: \_\_\_\_\_ PROJECT INSPECTOR MAY MODIFY TRAFFIC CONTROL PLANS AS FIELD CONDITIONS DICTATE

**Typical Application 7** 

Figure CSJ-8. Parking Lane Closure



**Note:** □**See Table A** for Sign, Cone Spacing, and Taper Lengths.

REVIEWED (\_\_\_\_ AS NOTED) BY:

DATE: \_\_\_ / \_\_\_ / 20\_\_\_

PERMIT #:

PROJECT INSPECTOR MAY MODIFY TRAFFIC CONTROL PLANS AS FIELD CONDITIONS DICTATE

Figure CSJ-9. Midblock Half Street Closure - Flagger Control

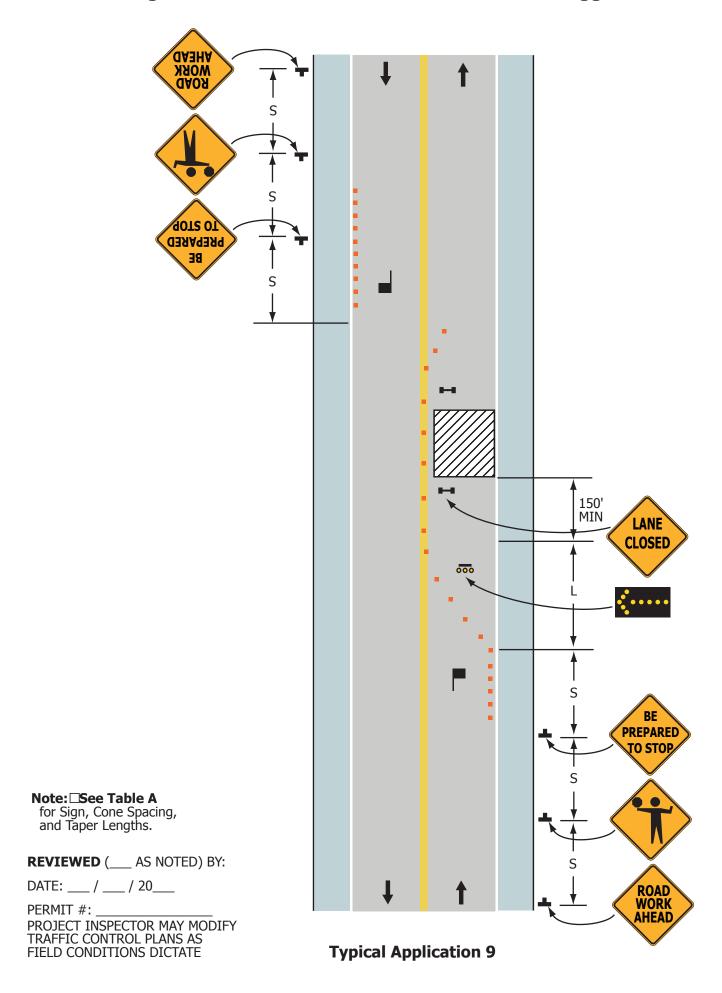


Figure CSJ-10. Left Turn Pocket Closure

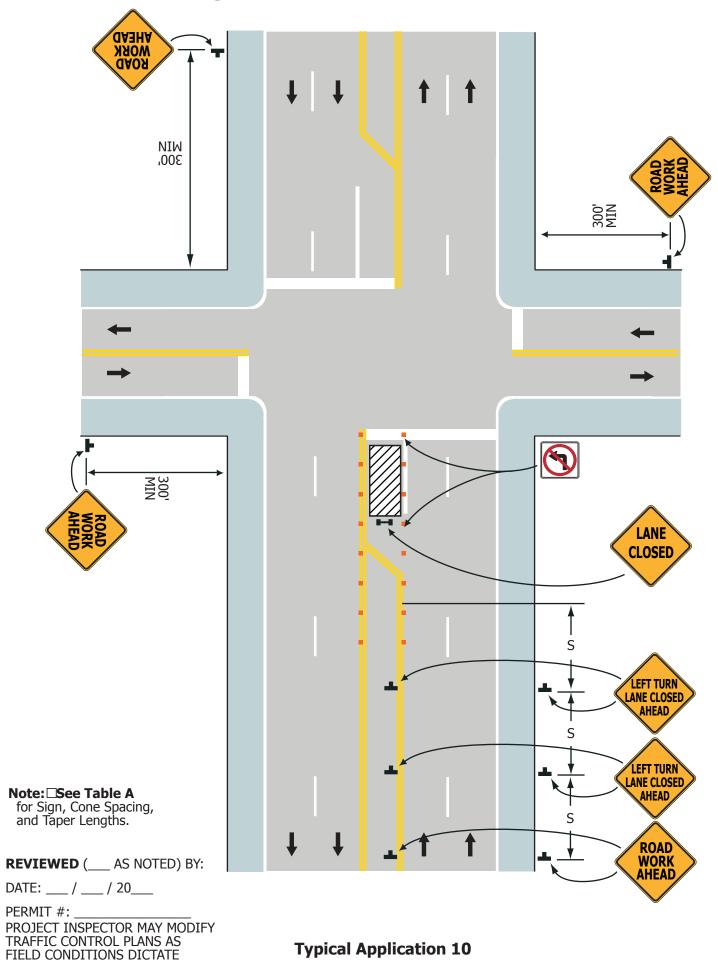


Figure CSJ-11. Left Lane - Near side Intersection Closure

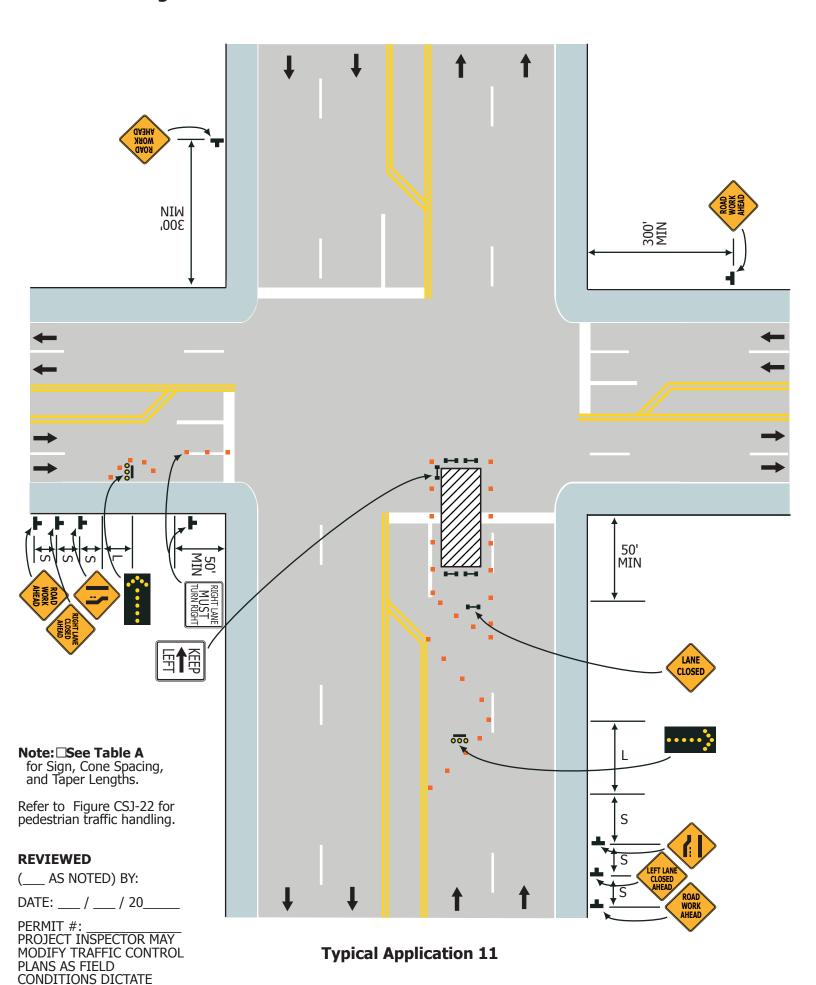


Figure CSJ-12. Left Lane - Beyond Intersection Closure

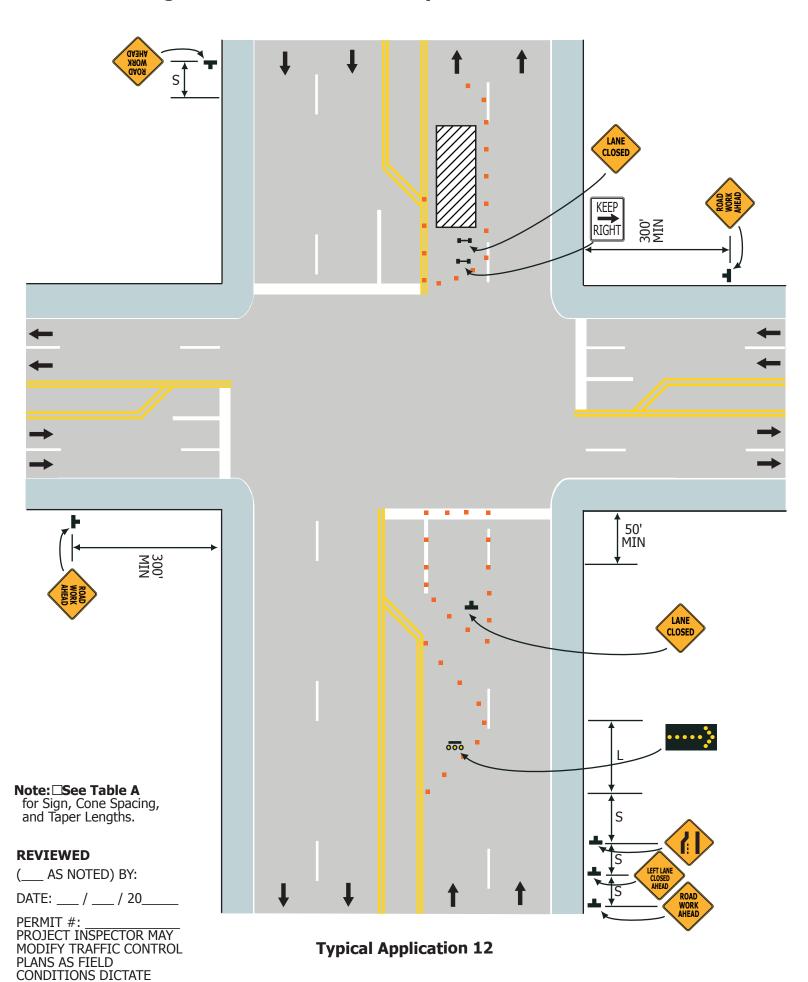
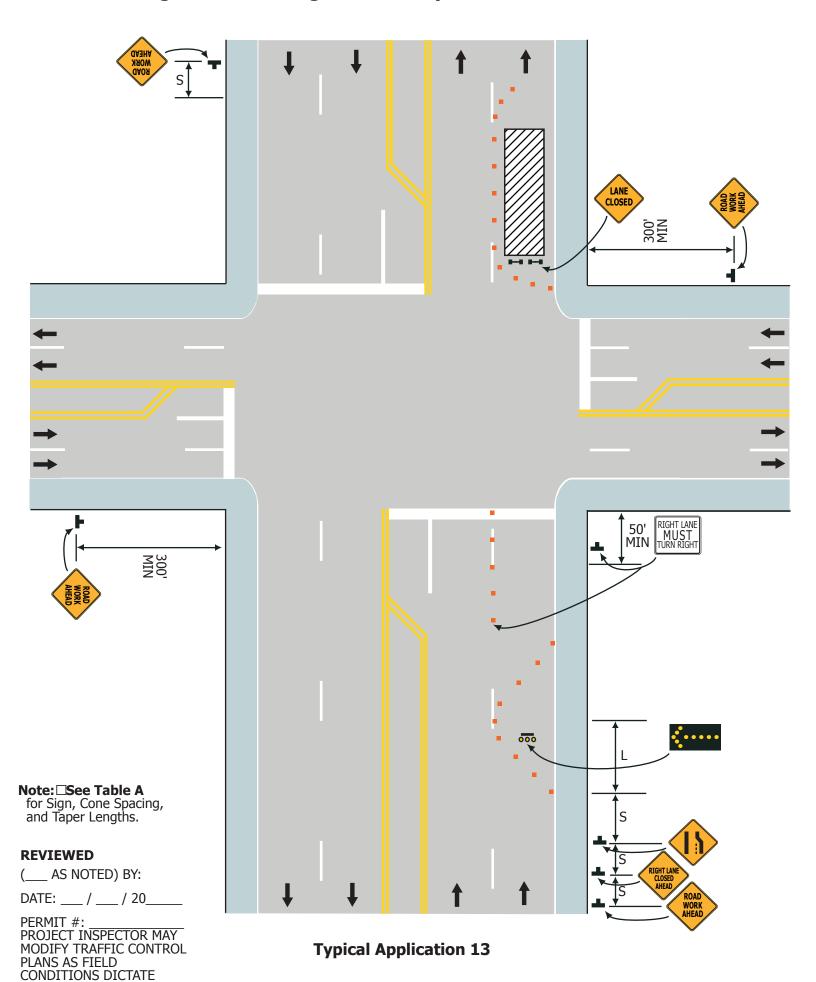
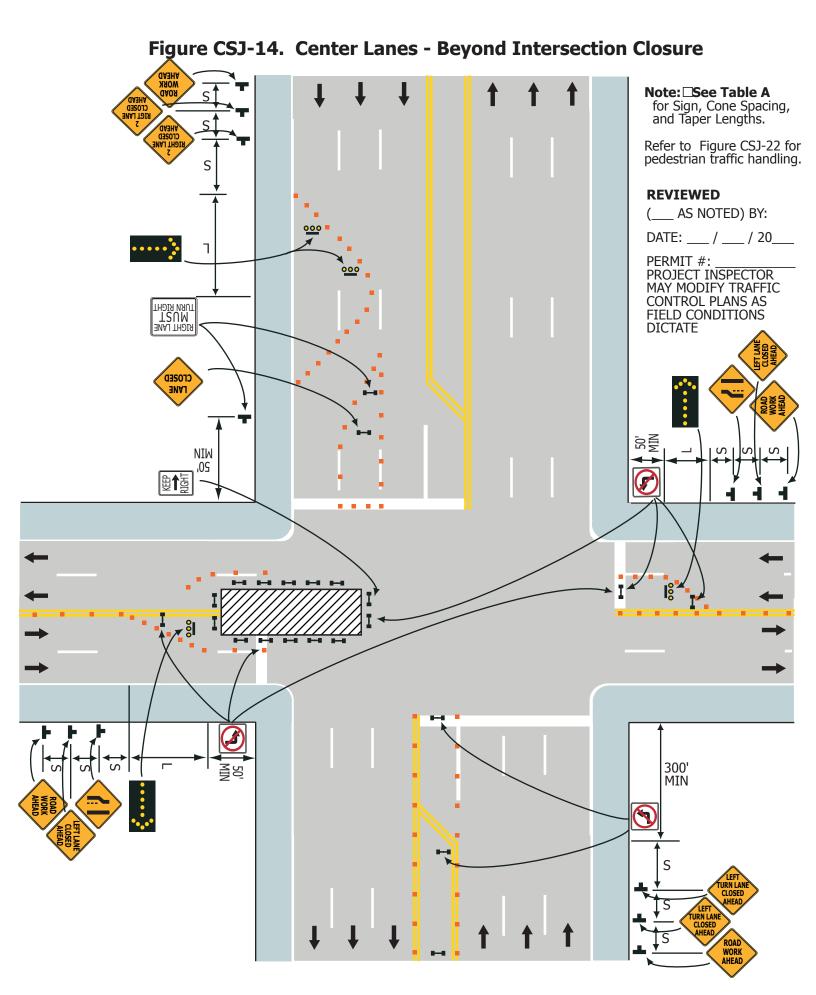


Figure CSJ-13. Right Lane - Beyond Intersection Closure





**Typical Application 14** 

Figure CSJ-15. Right Center Intersection Closure

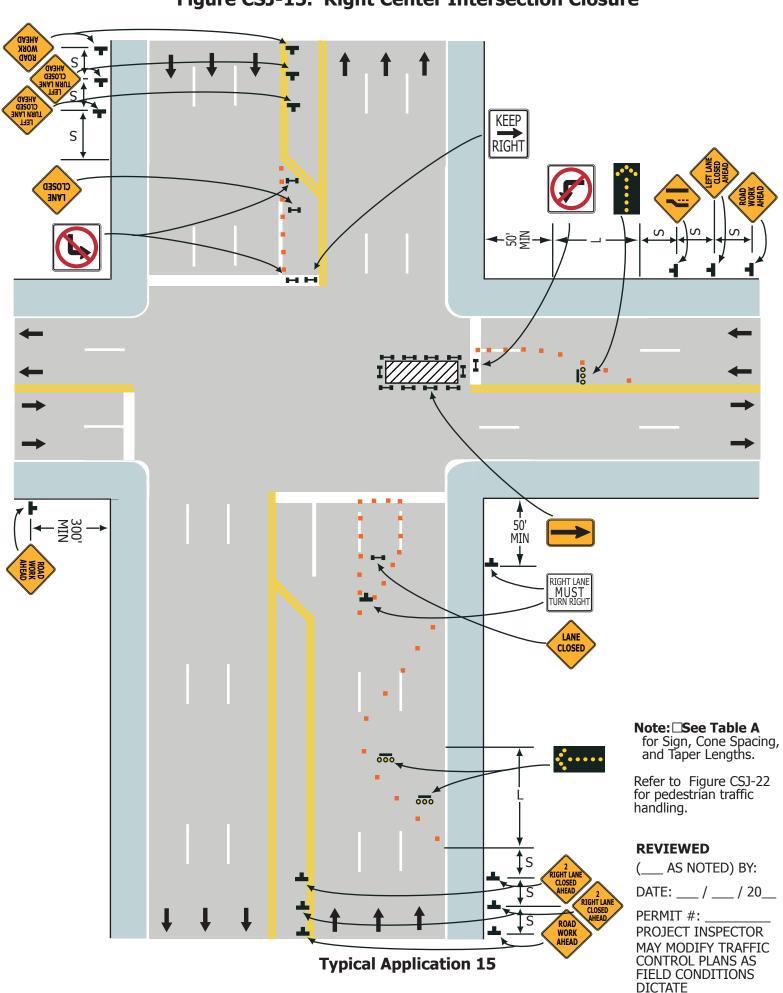
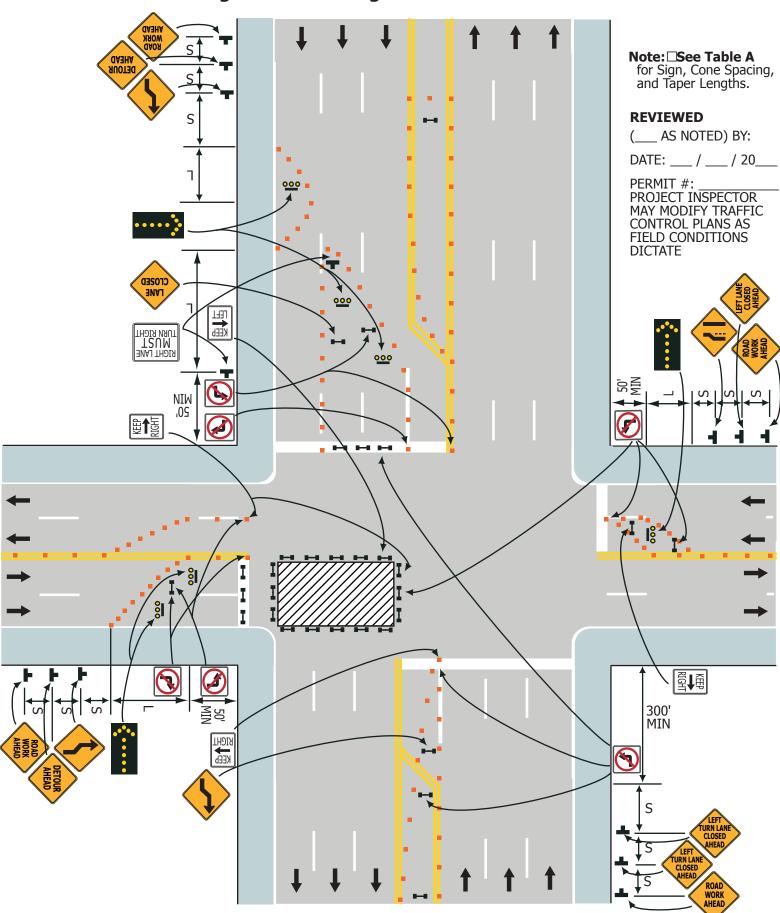
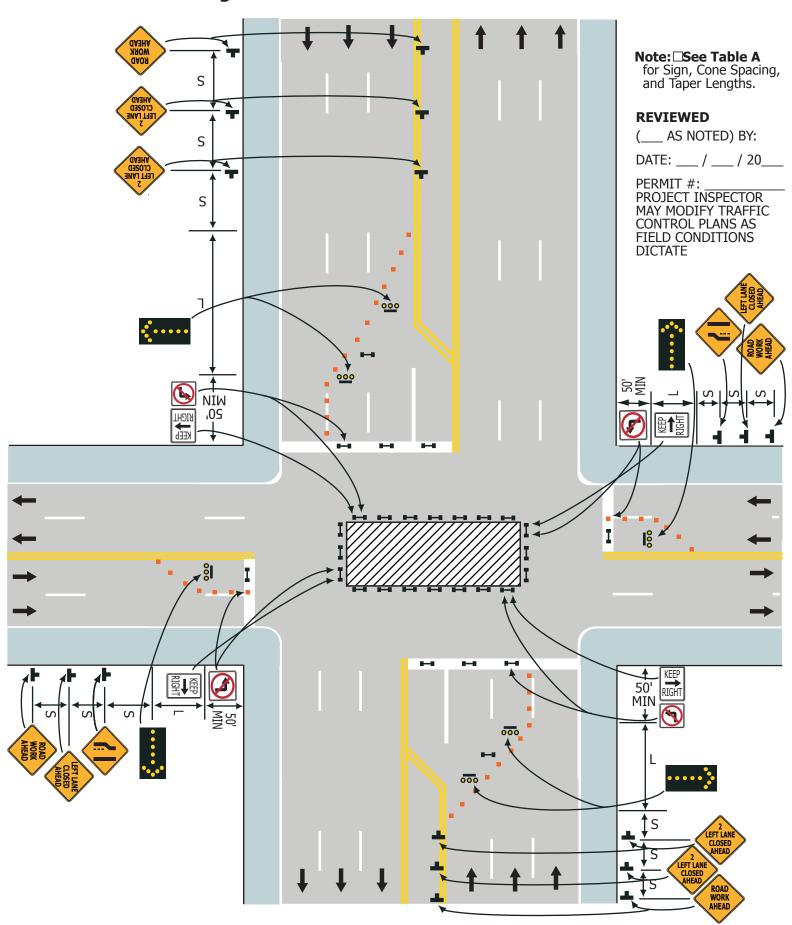


Figure CSJ-16. Right Intersection Closure



**Figure CSJ-17. Center Intersection Closure** 



**Typical Application 17** 

Figure CSJ-18. Far Half Street Closure

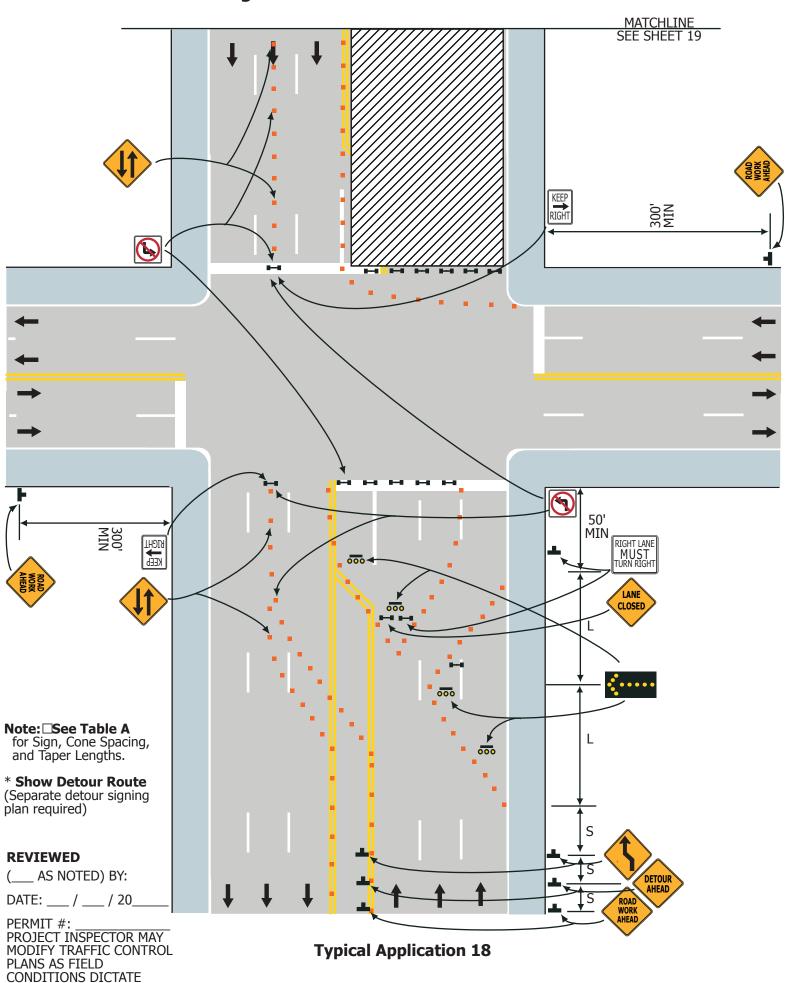


Figure CSJ-19. Near Half Street Closure

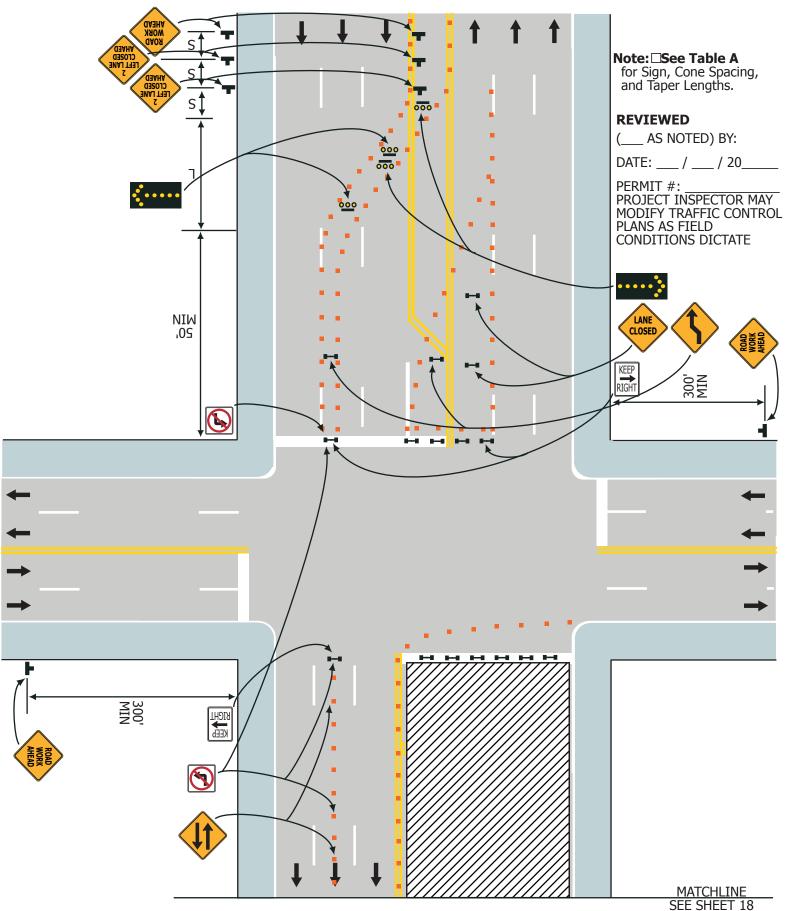


Figure CSJ-20. Full Street Closure

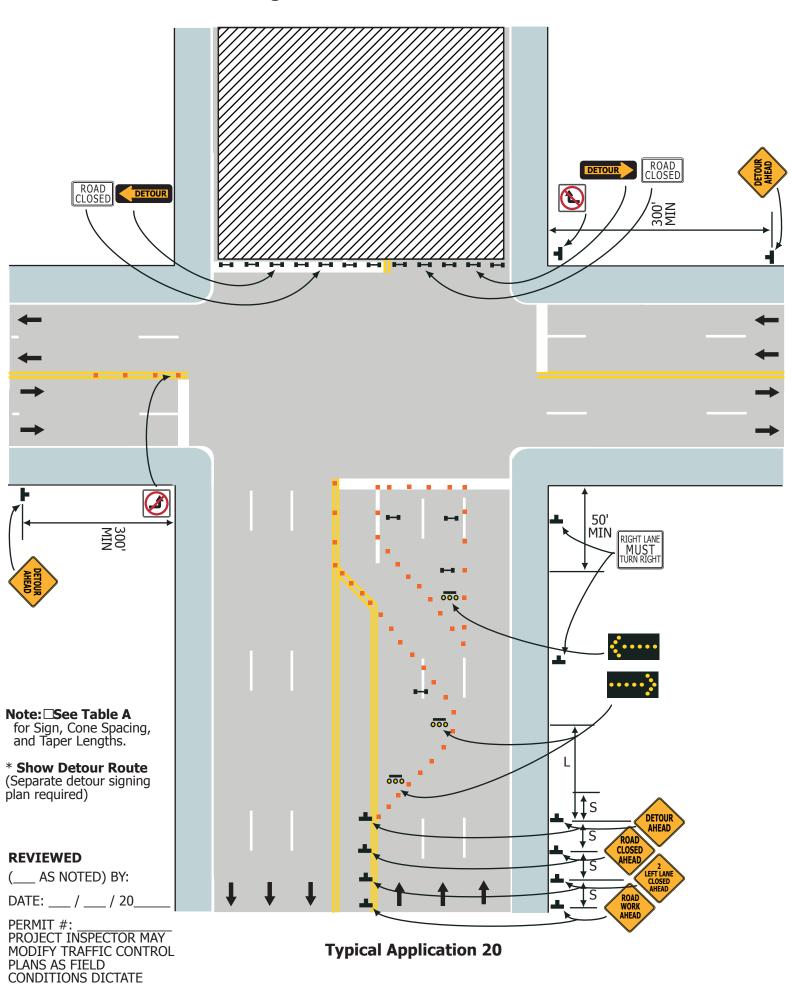
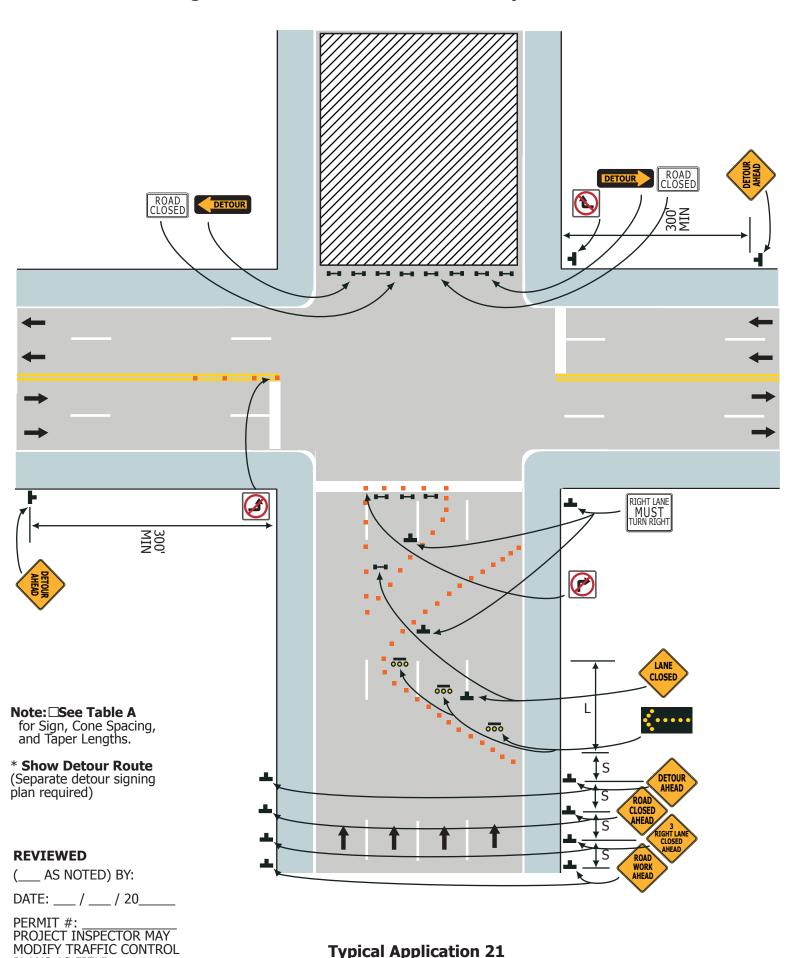


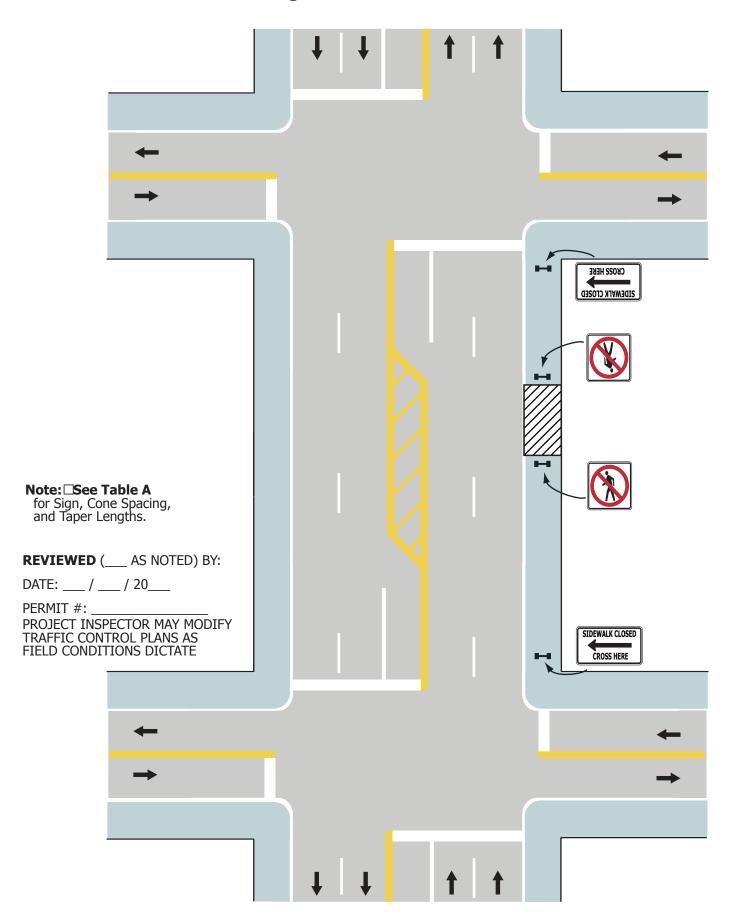
Figure CSJ-21. Full Street - One Way Street Closure



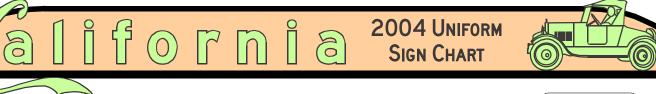
**Typical Application 21** 

PLANS AS FIELD CONDITIONS DICTATE

Figure CSJ-22. Sidewalk Closure



**Typical Application 22** 

















DONOT PASS

G20-1

G20-2

G20-4

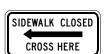
M4-8

M4-8a

M4-10

R3-1

R4-1



ROAD CLOSED

RAMP CLOSED

ROAD CLOSED 10 MILES AHEAD LOCAL TRAFFIC ONLY

ROAD CLOSED THRU TRAFFIC







R9-11a

R11-2

R11-2

R11-3a

R11-4

W1-4



W1-8



**PREPARED** TO STOP











W3-3

W3-4





W8-6

**ROAD** 

**WORK** 

W8-7

W8-9

W8-12

















W12-1

W12-2

W14-3

W16-2

W20-1

W20-2

W20-3

W20-3



















W20-4

W20-5

W21-1



W21-3



W21-5b

W21-6







ROAD WORK SPEED LIMIT









W22-1

W23-1

C9A (CA)

Front C17 (CA)

Back C17 (CA)

C20 (CA)

C23B (CA)

C27 (CA)

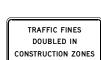
















C30 (CA)

C30A (CA) C31A (CA)

C37 (CA)

C38 (CA)

C40 (CA)

C40A (CA)

SC3 (CA)









LANE CLOSED **AHEAD** 

**LANE CLOSED** 

SC11 (CA)

**DO NOT PASS** 



SC15 (CA)

SC5 (CA)

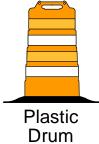
SC6-3 (CA) SC6-4 (CA)

SC10 (CA) SC9 (CA)





SC13 (CA)



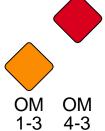




Paddle

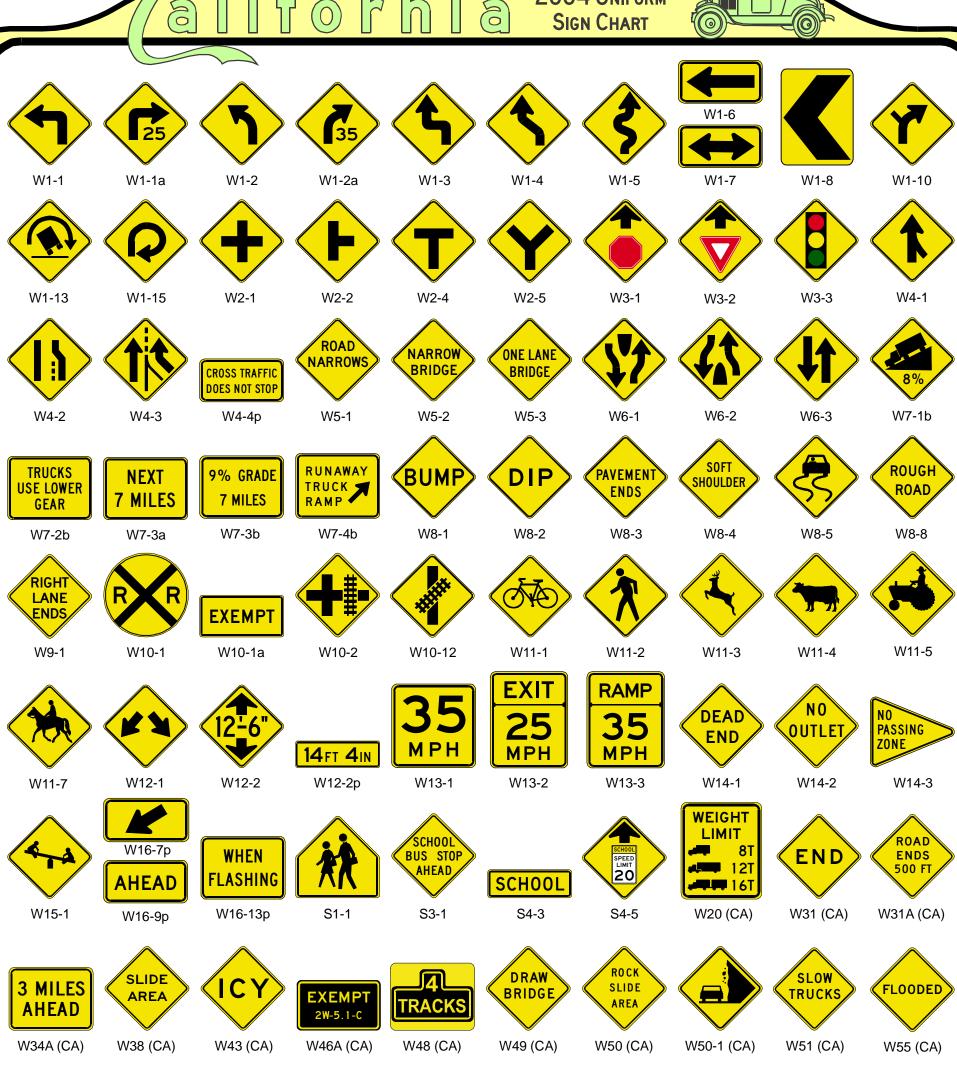
Type R (CA)







#### 2004 UNIFORM 0 (0)SIGN CHART









EXIT ONLY W61D (CA) **◆** EXIT ONLY **◆** W61E (CA)









W73A (CA)





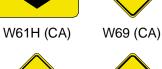
W61A (CA)

**EXIT** 



W61B (CA)

W61F (CA)







SW37 (CA)





SW41 (CA)



GUSTY WIND AREA
NEXT \_\_\_ MILES SW17-1 (CA)



NEXT RIGHT

SW48-1 (CA)







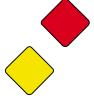
FLASH

FLOOD

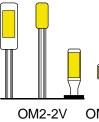
**END** 







SW38 (CA)





NOT ADVISED SW48 (CA)

TRACTOR-SEMIS

OVER \_\_\_ FEET KINGPIN TO

REAR AXLE

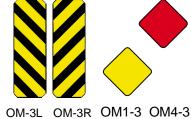


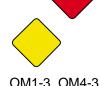


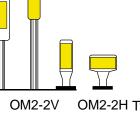




Warning Signs







Note: California codes are designated by (CA). Otherwise Federal codes are shown.





T0 **ONCOMING TRAFFIC** 

R1-2a



R1-4

RIGHT LANE



R1-5a





R3-1



(<sub>©</sub>



0



R1-1

R1-2



MUST TURN RIGHT



R3-8



R2-1



R3-8b



R3-2



R3-18

R3-3

DONOT **PASS** 

R4-1

R3-4

R3-5

**SLOWER** 

TRAFFIC

KEEP

RIGHT

R4-3

ONLY

R3-5a

TRUCKS USE RIGHT LANE

TRUCK LANE 500 FEET

R4-6

R3-6



R4-7

R3-7

**KEEP** RIGHT







R4-10



R5-1

WRONG WAY

R5-1a



R5-6

R4-5

**PEDESTRIANS BICYCLES** MOTOR-DRIVEN **CYCLES** PROHIBITED

**PEDESTRIANS PROHIBITED** R5-10C **ONE WAY** 

R6-1



R4-7a





R6-3a





VAN ACCESSIBLE

R7-8b

N(0) PARKING

BUS ST0P

N(0)PARKING

TOW - AWAY ZONE R7-201

R5-10a





R8-3a



R8-3c



R8-3d

**EMERGENCY** PARKING ONLY

R8-4

DO NOT ST0P 0NTRACKS

R8-8

**CROSS** ONLY ΑT **CROSS** WALKS

R7-9

N0

**PEDESTRIAN** 

**CROSSING** 

BIKE

\_ANE

R7-107

USE -CROSSWALK

R9-3b

R7-201a

**PUSH BUTTON** F0R **GREEN** LIGHT

R7-202

**PUSH BUTTON** FOR WALK SIGNAL

R10-4

PUSH BUTTON F0R 大

R10-4b



DO NOT **BLOCK** INTERSECTION

R10-7

NO TURN ON RED

R10-11

LEFT TURN YIELD ON GREEN

R10-12

R9-2

R9-3

**TURNING TRAFFIC** MUST YIELD TO

ROAD CLOSED

R9-3a

WEIGHT LIMIT 10 TONS



R10-3

TRUCK ROUTE

R14-1





R10-6



TRUCK M4-4 WHEN CHILDREN

END SCHOOL ZONE

ZONE AHEAD

R10-15

**END** 

**SPEED** 

LIMIT

**PEDESTRIANS** 

R11-2

TRUCKS 3 AXLES OR MORE MAXIMUM

R12-1 TRUCKS 3 AXLES OR MORE RIGHT **2 LANES** ONLY

**ALL VEHICLES** WHEN **TOWING MAXIMUM** R6-4 (CA)

R12-5

**ALL VEHICLES** WHEN **TOWING** RIGHT **2 LANES** ONLY R6-4A (CA)

R15-1 ON RED



RIGHT LANE **MUST EXIT** 

R18A (CA)

S4-2

RIGHT 2 LANES **MUST EXIT** 

R18A (CA)

S5-2

WEIGHT LIMIT 🕶 12T 🕶 🕶 16T

R20A (CA)

R2-4 (CA)

R3 (CA)

R20D-1 (CA)

\_TONS

 $OVER_{-}$ 

R6-3 (CA)

OVER 96" WIDE

R20D-3 (CA)

**OVER** 

60 FT LONG

R20D-4 (CA)

LENGTH LIMIT **45** 65FT

75FT 🕶

R20H (CA)

R6-3A (CA)

SEMI OVER
38 FEET
KINGPIN
TO REAR AXLE R20-1 (CA)

TOW-AWAY

NO

**PARKING** 

**ANY TIME** 

15 MPH ON BRIDGE FOR VEHICLES OVER **10 TONS** R21 (CA)

0K PARK ON BRIDGE

R22 (CA)

**PARKING** 

0 N

**BRIDGE** 

NO

R13A (CA)

PARK PARALLEL

R24 (CA)

R13B (CA)

PARK OFF **PAVEMENT** 

R25 (CA)

NO

PARKING

**ANY TIME** 

NO **PARKING** ANY TIME

R26 (CA)

N0

**STOPPING** 

**ANY TIME** 

N0 ANY TIME

R26A (CA)

PARKING VEHICLES

OVER

OVER\_AXLES R20D-2 (CA)

N0 STOPPING ANY TIME

R26A(S) (CA)

NO

NO **PARKING** HERE TO CORNER R26B (CA)

NO STOPPING

 $7 \cdot 10 \text{ AM}$ 

4 ™ 7 PM

NO PARKING

10 ам № 4 РМ

NO STOPPING FIRE LANE R26F (CA)

R26J (CA) NO **PARKING 7**ам ™6РМ

NO **STOPPING** ANY TIME R26(S) (CA) (I) PARKING

R27 (CA) NO STOPPING 7 10 9 AM 4 TO 615 PM 1 HOUR PARKING 9ам № 4Рм

NO **PARKING** ANY TIME R28 (CA)

7ам 10 6 РМ

R32 (CA)

R28A (CA) 2 HOUR **PARKING** 

30 MINUTE **PARKING 7**AM ™ **6** PM R28A(S) (CA) PARKING 2 HOUR PARKING

7ам™6рм

HIGH R28B (CA) NO LEFT **TURN** 

AM™\_PM

SUNDAYS - HOLIDAYS EXCEPTED

R28(S) (CA)

**STOPPING** 

**ANY TIME** 

R29 (CA)

NO **PARKING** 7 ™ 9 A M 4™6рм R30 (CA)

R30A (CA)

4 AM TO 5 AM 2 HOUR PARKING 9 AM ™ 6 PM R31 (CA)

R31(S) (CA)

R32A (CA) of 2

R33 (CA) R32B (CA) California Department of Transportation

Signs and Work Zones Branch November 2004 www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm

## 2004 UNIFORM 0 0 SIGN CHART



R33A (CA)



R33B (CA)



R33C (CA)

SPEED

**ENFORCED** 

COMMERCIAL **VEHICLES** OVER 5 TONS **PROHIBITED** 

R36 (CA)





R38 (CA)

TURNOUT



R38(S) (CA)



R40 (CA)

(O)

BICYCLES R44A (CA)

**(** 

Ø₩ BIKE PATH

N0

MOTOR

VEHICLES

OR MOTORIZED

R53A (CA)



R44B (CA)



\$1000 FINE FOR LITTERING

R47 (CA)

BY RADAR

RADAR **ENFORCED** 

R48-1 (CA)

**SPEED ENFORCED** BY

R37 (CA)

AIRCRAFT

R48-2 (CA)



R50 (CA) R52 (CA)



R52A (CA)



R53B (CA)



R44C (CA)

TO UPHILL TRAFFIC

YIELD

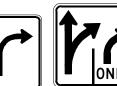
R55 (CA)



R48 (CA)

R57 (CA) END FREEWAY

R58 (CA)



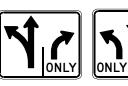
R60B (CA)



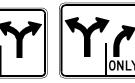
R61-3 (CA)



R61-5 (CA)



R61-7 (CA)



R61-9 (CA) R61-11 (CA)



R61-13 (CA)



R61-17 (CA)

R53E (CA)



R61-19 (CA)

**PUSH BUTTON** WARNING LIGHTS



R61-22 (CA)



R61-24 (CA)



R61-26 (CA)



R61-28 (CA)



R61-30 (CA)



R61-32 (CA)



R61-34 (CA)





R62C (CA)

CROSS WITH CAUTION

R62E (CA)



R67 (CA)



**CHAINS** 

REQUIRED

R68 (CA)



R70 (CA)

NO EXCEPTIONS

R77 (CA)

END

CHAIN



R73-1 (CA)

AUTOS & PICKUPS SNOW TIRES OK

**CARRY CHAINS** 

R79 (CA)



R73-2 (CA)

4-W DRIVE WITH SNOW TIRES OK

CARRY CHAINS

R80-1 (CA)



R73-3 (CA)

**BIKE LANE** 

R81 (CA)

LEFT LANE

**CARPOOLS** 

ONLY

\_PM - \_\_PM

MON - FRI



R73-4 (CA)

BEGIN

R81A (CA)

R87-1 (CA)

R87-2 (CA)

CARPOOLS ONLY

CARPOOLS ONLY

R73-5 (CA)

R81B (CA)

1 CAR PER GREEN

R89 (CA)

**CAR PER GREEN** 

THIS LANE

R89-2 (CA)



R73-6 (CA)

6AM-9AM

MON-FRI

R82A (CA)

ALL

VEHICLES

**STOP** 

ON RED

R90-1 (CA)



AM -

PM -

MON - FRI

R82B (CA)

**CARPOOLS** 

2 OR MORE

ONLY

\_AM - \_AM Mon - Fri

R91 (CA)



 $_{\mathsf{AM}}$ 

PM



R75 (CA)

 $\langle \rangle$ 

**CARPOOL** 

LANE

**AHEAD** 

1/2 MILE

R82-1 (CA)

LEFT LANE

**CARPOOLS** 

2 OR MORE

ONLY

WHEN METERED

R91-1 (CA)



R76-1 (CA)



LANE R84-1 (CA)

 $\Diamond$ 

NO

TRUCKS

OVER 5 TONS

OR VEHICLES

WITH TRAILERS

R91-2 (CA)

CARPOOL



R84-2 (CA)

CARPOOLS

2 OR MORE

ONLY

R91-3 (CA)



R86 (CA)

**AUTOS / PICKUPS** 

2 SEATERS WITH 2 PERSONS OK

R91B (CA)

VEHICLES WITH DMV

CLEAN AIR DECAL OK

R93A (CA)



R86-2 (CA)

 $\Diamond$ 

CARPOOL

IS 2

OR MORE

PERSONS

PFR

**|VEHICLE** 

R93-2 (CA)

HAZARDOUS

MATERIAL

**PROHIBITED** 

ONE LANE

BRIDGE

FOR TRUCKS

AND BUSES

SR27-1





R99 (CA)



R100A (CA)



**KEEP** 

**ALL BUSES** 

ST0P

AT SCALES

SR41 (CA)

PRIVATE ROAD VEHICLE CODE

ENFORCED

R101 (CA)



**HAZARDOUS** WASTE **PROHIBITED** 

R102A (CA)

EMPTY 5 MPH

SR11-1 (CA)

LOADED 3 MPH

SR12-1 (CA)



HAZARDOUS WASTE **PERMITTED** 



SAFETY

BELT LAW

**ENFORCED** 

SR15A (CA)



DUMPING

**PROHIBITED** 

SR22-1 (CA)

R104A (CA)



LEFT TURN ON GREEN

ARROW ONLY

NO U TURN

SR39A (CA)



R105A (CA) SR5-1 (CA)



SR7-1 (CA)

GOLF

CARTS

0 K

DAYLIGHT

HOURS

SR43 (CA)

LOADED SR9-1 (CA)

R102 (CA)

**EMPTY** 

SR10-1 (CA)

**EMERGENCY ACCESS KEEP** 

CLEAR

SR46 (CA)





SR15 (CA)

SPECIAL DRIVING ZONE BEGINS HERE DOUBLE FINE ZONE

SR53 (CA)

**DOUBLE FINE** ZONE

SR54 (CA)

SPECIAL DRIVING ZONE ENDS HERE

ALL TRUCKS - 2 AXLE ND MORE - STOP AT SCALE SR57 (CA)

SR55 (CA)



VIOLATION MINIMUM FINE SR58 (CA)

LEFT OR U

TURN ON GREEN

ARROW ONLY

SR39A(U) (CA)

RED LIGHT TRAFFIC **FINES** 

DOUBLED SR59 (CA)

California Department of Transportation Signs and Work Zones Branch November 2004 www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm

## 0 0 0

# 2004 UNIFORM SIGN CHART





D3 Johnson Blvd **NEXT SIGNAL** 

D3-2







D5-2

YOSEMITE NAT'L PARK 1/4 MILE

D7-1

WEIGH STATION

1 MILE

D8-1

D9-1

D9-2



D9-3a



D9-7



D4-2

D9-8



**REST AREA** 

1 MILE

D5-1

D9-9



D9-11



D9-11a



D9-11b



D11-1



D12-1

Oakland

D9-6

Brazos NEXT 10 EXITS





I-7

TEMPORARY



I-12

Shield



M1-6



D9-17

M1-7



M2-1



M3-3

E9



M4-1



M4-3



M4-5

M4-6

M4-7



M4-11



M4-12 M5-1





M6-2



Redlands 30 👈

G1-1 (CA)

Redlands 2

Stockton 5

M6-3



↑ Salinas 50

Redlands 30 🔷

G1-7 (CA) ♠ Salinas 50

Roseville 5 Sacramento 23

**↑** Mariposa

Fresno

Stockton -

G8-16 (CA)

**W**EST

M3-4

M6-6



RL-100



RM-010



RM-120



RS-040



RS-070



M6-1

RW-080

↑ Oroville

Chico 🚽



RW-130

♠ Salinas

Sacramento

G8-10 (CA)

Roseville



G1-10 (CA)



G1-13 (CA)

Mariposa

Stockton

Fresno



G1-16 (CA)

**Fairview** 

Road -

G8-22 (CA)

Soda Springs

G9-2 (CA)

G1-19 (CA)

Cloverdale

CITY LIMIT

G9-5 (CA)

Kern

COUNTY LINE

G10 (CA)



G5 (CA)

G10B (CA)

Donner Pass ELEV 7135 FT

G16 (CA)

ELEVATION

3000 FT



CUYAMA RIVER 101 ORA R144 44



OVERCROSSING

G11-2 (CA)

Sacramento

RIGHT LANE

G20-1 (CA)

GEORGE F. BUTLER MEMORIAL BRIDGE

Chico

Oroville

G8-4 (CA)

**EEL RIVER** 

0 101 HUM R53 97

G11-4.1 (CA)

G11-4A (CA)

Marysville

Yuba City

RIGHT LANE

G20-3 (CA)

San Bernardino

G24-1 (CA)

10 EAST

Los Angeles San Bernardino

101 HUM 찟 144

G8-7 (CA)

G11-6 (CA)

(12) EAST

Fairfield

RIGHT LANE

G20-5 (CA)



G11-7 (CA)

880) South

Oakland

San Jose

RIGHT LANE

G20-7 (CA)

(60) EAST

Riverside



Orange 👈

G8-13 (CA)

G11-8 (CA)

5 North

CARPOOL LANE

RIGHT LANE

G20-9 (CA)

South



G21-1 (CA)

Monterey

San Diego

G24-6 (CA)

G8-19 (CA)

G13-2 (CA)

5 Freeway

South

LEFT LANE

North

RIGHT LANE

G21-3 (CA)





G14 (CA)

Salinas

RIGHT TURN

1/4 MILE

G22 (CA)



G15 (CA)

G23-1 (CA)

G23-2 (CA)

INTERSTATE

G27-2 (CA)

Marker

**ELECTRIC** 

VEHICLE

CHARGING

STATION





G23-4 (CA)



G23-6 (CA) G24-3 (CA)



G24-4 (CA)



G30A (CA)







HIGHWAY

PATROL



G26-1 (CA) Shield

G66-11 (CA)



METHANOL G66-11A (CA)

DIESEL G66-12A (CA)





G28-1 (CA)

ShieÌd

<CNG) G66-22A (CA)

G28-2 (CA) Marker

G66-22B (CA)

scenic route

G30 (CA)



G66-55 (CA)





G66-56A (CA)

G66-57 (CA)



# 0 0

**BRAKE CHECK** 

AREA

# 2004 UNIFORM SIGN CHART







G66-58 (CA)

**BRAKE CHECK** 

AREA

**BRAKE CHECK** AREA 🛪

1/2 MILE G66-60 (CA) DIVIDED ROAD 2 MILES

**PASSING** LANE 2 MILES

G70-2 (CA)



EXIT 444A

G70-5 (CA)

VENDING

G81-63 (CA)

WHEN FLASHING

G81-64A (CA)



**↑** South StocktonBlvd

G66-61 (CA)

G66-62 (CA)

G66-59 (CA)

AHEAD G68 (CA)

**EXIT 444A** 

**EXIT 44** 

OUTE 99 BUSINESS

G76 (CA)

North →

G77-1 (CA)

**↑** WEST (12)EAST 👈



G77-7 (CA)



G78-1 (CA)

 $\langle \rangle$ 

**EXIT** 

Harbor Fwy 🕦 **←** North

G78-4 (CA)

NEXT REST 5 MI

G79A (CA)

PATROLLED BY HIGHWAY PATROL G80B (CA)

Tourist Information

G81-21 (CA)

G69 (CA)

Tourist Information

G81-24 (CA)

LP GAS

G81-52 (CA)

G70-3 (CA)

**EMERGENCY** CALL 9-1-1 G81-62 (CA)

EMERGENCY-CALL 9-1-1

G81-61 (CA)

G70-4 (CA)

**MACHINES** 

RECREATION INFO 750 1230 96.3 FM

G82 (CA)

Modesto St 1 MILE

G83-1 (CA) G81-65 (CA) (5) Los Angeles FREEWAY ->

G83-2 (CA)

Barranca Rd
EXIT ONLY

G77-4 (CA)









Modesto St

G85-11 (CA)

EXIT 444A



G84-2 (CA)



G84-3 (CA)



Main St 🗷 G85-2 (CA)



G85-3 (CA)

 $\langle \rangle$ 

Alicia

Pkwy

NEXT RIGHT

COURTESY OF WEBERSTOWN MALL G95B-1 (CA)

G95D (CA)

Cabrillo

Highway

SG1 (CA)

SNO-PARK

CAMPING

SG42-8 (CA)

CALIFORNIA WELCOME CENTER

21/2 MILES

SG47D (CA)

RANCHO MURIETA

**BRIDGE - 1908** 

2 MILES 🔷

S29-2 (CA)



G85-4 (CA)



Eureka

Barranca Rd LEFT EXIT - 1/2 MILE

G86-10 (CA)

Old Towne Orange Historic District

G86-11 (CA)



EXIT 444A

Modesto St

G86-12 (CA)

Modesto St

NEXT RIGHT

G86-13 (CA)

G85-6 (CA) G85-7 (CA)



G85-8 (CA)



G83-5 (CA)



G85-10 (CA)

 $\pi$ 

Los Angeles NEXT RIGHT G86-1 (CA)

5 South Los Angeles NEXT RIGHT

G86-3 (CA)



G86-5 (CA) G86-7 (CA)



G86-8 (CA)





PARK & RIDE 🦱 G95E (CA)







**FREEWAY ENTRANCE** 



G92-1 (CA)



PARKING

G93C (CA)



G94-1 (CA)

WILDLIFE

VIEWING

G200-81A (CA)



G95A (CA)



G95B (CA)

BOTANICAL

MANAGEMENT

AREA

G200-82A (CA)

BUS SERVICE



G95F (CA)

Camino

SG2 (CA)

CDF FIRE STATION

Real

ΕI



Historic El Camino Real

SG2A (CA)

NO PICKUPS

SG8 (CA)

END

CALL



RIDESHARING

INFO CALL
1-800-COMMUTE

SG19 (CA)

CAMPING

SG42-12 (CA)

**HISTORIC** 

CALIFORNIA

(101)

ROUTE

S18 (CA)

S32-1 (CA)

G92 (CA) TROLLEY

G96A (CA)



PARK & RIDE

INFO CALL

PACE PROVIDED CO PLACER COUNTY

SG20 (CA)



LOS ANGELES COUNTY

CALL

BOX

605-R372M

SG25 (CA)



G200-81 (CA)

SG26 (CA)

][\_ ]-)

SG42-4 (CA)

City Bike Rou



SG28 (CA)

**FUEL** 

SG42-5 (CA)

CALIFORNIA

2 MILES

SG47A (CA)

WELCOME

CENTER



**SNO-PARK** 



SG31 (CA)

SG42-6 (CA)

CALIFORNIA

WELCOME

CENTER

NEXT RIGHT

SG47B (CA)



SG32 (CA) SNO-PARK 👈

SG33 (CA)

SG42-7 (CA)

CALIFORNIA WELCOME CENTER

SG47C (CA)

RANCHO MURIETA

BRIDGE



NOV 1 TO MAY 30 SG35-1 (CA)



PERMIT REQUIRED FIRE STATION



**EXIT 44** 

**FUEL** 

SG42-9 (CA)

(511)

**INFO** 

**CALL 511** 

SG49A (CA)

FOR INFORMATION

CALL 1-866-ADOPTAHWY

S32 (CA)

IN MEMORY OF JOHN & JANE DOE

S35-1 (CA)





FUFI - FXIT 44

SG42-10 (CA)

**EL CAMINO REAL** 

NAME OF ORGANIZATION

S16-8 (CA)

PACIFIC COAST

S17 (CA)

ALCONO.

SG42-1 (CA)





SG42-2 (CA) SG42-3 (CA)



SG42-11 (CA) SG44-2 (CA)



ROUTE S25 (CA)





1908 S29-1 (CA)

PLEASE

DON'T DRINK AND DRIVE

S32A (CA)



NO LOITERING

PARKING OF VEHICLES

30 FEET OR LONGER

S22 (CA)

S32-3 (CA)

SOLICITING

STREETS AND HIGHWAYS CODE - SECTION 225.5

S24 (CA)





S32-5 (CA)











JOHN DOE JANE DOE



